

C, STRUP

BIOTECHNOLOGY
SYSTEMS
BRANCH



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/241,653

Art Unit / Team No. : 1633

Date Processed by STIC: 8/31/99

#7
CHK
10-14-99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,

2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/24/653

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
 (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
 This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES)
- 12 Use of <220>Feature Sequence(s) 1-31 (maybe more) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
 Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
 file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
 Instead, please use "File Manager" or any other means to copy file to floppy disk.

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/241,653

DATE: 09/03/1999

TIME: 11:08:31

Input Set: I241653.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Wagner, Hermann
2 Lipford, Grayson
3 <120> TITLE OF INVENTION: Methods for Regulating Hematopoiesis
4 Using CpG-Oligonucleotides
5 <130> FILE REFERENCE: C1041/7002/HCL
6 <140> CURRENT APPLICATION NUMBER: US/09/241,653
7 <141> CURRENT FILING DATE: 1999-02-02
8 <150> EARLIER APPLICATION NUMBER: US 60/085,516
9 <151> EARLIER FILING DATE: 1998-05-14
10 <160> NUMBER OF SEQ ID NOS: 110
11 <170> SOFTWARE: FastSEQ for Windows Version 3.0
12 <210> SEQ ID NO 1
13 <211> LENGTH: 15
14 <212> TYPE: DNA
15 <213> ORGANISM: Artificial Sequence
16 <400> SEQUENCE: 1
17 gctagacgtt agcgt 15
18 <210> SEQ ID NO 2
19 <211> LENGTH: 15
20 <212> TYPE: DNA
21 <213> ORGANISM: Artificial Sequence
22 <400> SEQUENCE: 2
23 gctagatgtt agcgt 15
24 <210> SEQ ID NO 3
25 <211> LENGTH: 15
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
28 <220> FEATURE:
29 <221> NAME/KEY: modified_base
30 <222> LOCATION: (7)...(7)
31 <223> OTHER INFORMATION: m5c
32 <400> SEQUENCE: 3
33 gctagacgtt agcgt 15
34 <210> SEQ ID NO 4
35 <211> LENGTH: 15
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <221> NAME/KEY: modified_base
40 <222> LOCATION: (13)...(13)
41 <223> OTHER INFORMATION: m5c
42 <400> SEQUENCE: 4
43 gctagacgtt agcgt 15
44 <210> SEQ ID NO 5

Does Not Comply
Corrected Diskette Needed

see item 12 on Ena Summary Sheet

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RAW SEQUENCE LISTING
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DATE: 09/03/1999

TIME: 11:08:31

Input Set: I241653.RAW

45 <211> LENGTH: 15
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
48 <400> SEQUENCE: 5
49 gcatgacgtt gagct 15
50 <210> SEQ ID NO 6
51 <211> LENGTH: 20
52 <212> TYPE: DNA
53 <213> ORGANISM: Artificial Sequence
54 <400> SEQUENCE: 6
55 atggaaggctc cagcgttctc 20
56 <210> SEQ ID NO 7
57 <211> LENGTH: 20
58 <212> TYPE: DNA
59 <213> ORGANISM: Artificial Sequence
60 <400> SEQUENCE: 7
61 atcgactctc gagcgttctc 20
62 <210> SEQ ID NO 8
63 <211> LENGTH: 20
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
66 <220> FEATURE:
67 <221> NAME/KEY: modified_base
68 <222> LOCATION: (3)...(3)
69 <223> OTHER INFORMATION: m5c
70 <220> FEATURE:
71 <221> NAME/KEY: modified_base
72 <222> LOCATION: (10)...(10)
73 <223> OTHER INFORMATION: m5c
74 <220> FEATURE:
75 <221> NAME/KEY: modified_base
76 <222> LOCATION: (14)...(14)
77 <223> OTHER INFORMATION: m5c
78 <400> SEQUENCE: 8
79 atcgactctc gagcgttctc 20
80 <210> SEQ ID NO 9
81 <211> LENGTH: 20
82 <212> TYPE: DNA
83 <213> ORGANISM: Artificial Sequence
84 <220> FEATURE:
85 <221> NAME/KEY: modified_base
86 <222> LOCATION: (3)...(3)
87 <223> OTHER INFORMATION: m5c
88 <400> SEQUENCE: 9
89 atcgactctc gagcgttctc 20
90 <210> SEQ ID NO 10
91 <211> LENGTH: 20
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/241,653DATE: 09/03/1999
TIME: 11:08:31

Input Set: I241653.RAW

95 <221> NAME/KEY: modified_base
96 <222> LOCATION: (18)...(18)
97 <223> OTHER INFORMATION: m5c
98 <400> SEQUENCE: 10
99 atcgactctc gagcggttctc 20
100 <210> SEQ ID NO 11
101 <211> LENGTH: 20
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
104 <400> SEQUENCE: 11
105 atggaaggtc caacgttctc 20
106 <210> SEQ ID NO 12
107 <211> LENGTH: 20
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial Sequence
110 <400> SEQUENCE: 12
111 gagaacgctg gaccttccat 20
112 <210> SEQ ID NO 13
113 <211> LENGTH: 20
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
116 <400> SEQUENCE: 13
117 gagaacgctc gaccttccat 20
118 <210> SEQ ID NO 14
119 <211> LENGTH: 20
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
122 <400> SEQUENCE: 14
123 gagaacgctc gaccttcgat 20
124 <210> SEQ ID NO 15
125 <211> LENGTH: 20
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
128 <400> SEQUENCE: 15
129 gagcaagctg gaccttccat 20
130 <210> SEQ ID NO 16
131 <211> LENGTH: 20
132 <212> TYPE: DNA
133 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <221> NAME/KEY: modified_base
136 <222> LOCATION: (6)...(6)
137 <223> OTHER INFORMATION: m5c
138 <400> SEQUENCE: 16
139 gagaacgctg gaccttccat 20
140 <210> SEQ ID NO 17
141 <211> LENGTH: 20
142 <212> TYPE: DNA
143 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/241,653DATE: 09/03/1999
TIME: 11:08:31

Input Set: I241653.RAW

145 <221> NAME/KEY: modified_base
146 <222> LOCATION: (14)...(14)
147 <223> OTHER INFORMATION: m5c
148 <400> SEQUENCE: 17
149 gagaacgctg gaccttccat 20
150 <210> SEQ ID NO 18
151 <211> LENGTH: 20
152 <212> TYPE: DNA
153 <213> ORGANISM: Artificial Sequence
154 <400> SEQUENCE: 18
155 gagaacgatg gaccttccat 20
156 <210> SEQ ID NO 19
157 <211> LENGTH: 20
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
160 <400> SEQUENCE: 19
161 gagaacgctc cagcactgat 20
162 <210> SEQ ID NO 20
163 <211> LENGTH: 20
164 <212> TYPE: DNA
165 <213> ORGANISM: Artificial Sequence
166 <400> SEQUENCE: 20
167 tccatgtcgg tcctgatgct 20
168 <210> SEQ ID NO 21
169 <211> LENGTH: 20
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
172 <400> SEQUENCE: 21
173 tccatgtcgg tcctgatgct 20
174 <210> SEQ ID NO 22
175 <211> LENGTH: 20
176 <212> TYPE: DNA
177 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <221> NAME/KEY: modified_base
180 <222> LOCATION: (8)...(8)
181 <223> OTHER INFORMATION: m5c
182 <400> SEQUENCE: 22
183 tccatgtcgg tcctgatgct 20
184 <210> SEQ ID NO 23
185 <211> LENGTH: 20
186 <212> TYPE: DNA
187 <213> ORGANISM: Artificial Sequence
188 <220> FEATURE:
189 <221> NAME/KEY: modified_base
190 <222> LOCATION: (12)...(12)
191 <223> OTHER INFORMATION: m5c
192 <400> SEQUENCE: 23
193 tccatgtcgg tcctgatgct 20
194 <210> SEQ ID NO 24

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/241,653

DATE: 09/03/1999

TIME: 11:08:31

Input Set: I241653.RAW

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195 <211> LENGTH: 20
196 <212> TYPE: DNA
197 <213> ORGANISM: Artificial Sequence
198 <400> SEQUENCE: 24
199      tccatgacgt tcctgatgct                                20
200 <210> SEQ ID NO 25
201 <211> LENGTH: 20
202 <212> TYPE: DNA
203 <213> ORGANISM: Artificial Sequence
204 <400> SEQUENCE: 25
205      tccatgtcgg tcctgctgat                                20
206 <210> SEQ ID NO 26
207 <211> LENGTH: 8
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
210 <400> SEQUENCE: 26
211      tcaacggt                                            8
212 <210> SEQ ID NO 27
213 <211> LENGTH: 8
214 <212> TYPE: DNA
215 <213> ORGANISM: Artificial Sequence
216 <400> SEQUENCE: 27
217      tcaagcgt                                            8
218 <210> SEQ ID NO 28
219 <211> LENGTH: 8
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
222 <400> SEQUENCE: 28
223      tcagcgct                                            8
224 <210> SEQ ID NO 29
225 <211> LENGTH: 8
226 <212> TYPE: DNA
227 <213> ORGANISM: Artificial Sequence
228 <400> SEQUENCE: 29
229      tcatcgat                                            8
230 <210> SEQ ID NO 30
231 <211> LENGTH: 8
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
234 <400> SEQUENCE: 30
235      tcttcgaa                                            8
236 <210> SEQ ID NO 31
237 <211> LENGTH: 7
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
240 <400> SEQUENCE: 31
241      caacggt                                            7
242 <210> SEQ ID NO 32
243 <211> LENGTH: 8
244 <212> TYPE: DNA

```

Please Note:

Use f n and/ r Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

CF9I

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VERIFICATION SUMMARY
PATENT APPLICATION US/09/241,653

DATE: 09/03/1999

TIME: 11:08:31

Input Set: I241653.RAW

Line ? Error/Warning

Original Text

533 W "N" or "Xaa" used: Feature required

nnnnnnnnnn nnnnnnnnnn